

~~RESTRICTED~~

RECORD COPY

RECORD COPY



DOCUMENTS BRANCH
PERIODICAL ABSTRACTS

Number 4

18 Jun 1947

RECORD COPY

RECORD COPY

Prepared By

Documents Branch

CENTRAL INTELLIGENCE GROUP

2430 E Street, N. W.
Washington, D. C.

DOCUMENT NO. 04
 NO CHANGE IN CLASS
 DECLASSIFIED
CLASS. CHANGED TO: TS S S
NEXT REVIEW DATE:
AUTH: HR 70-2
DATE 8 SEP 1980 REVIEWER: #18373

~~RESTRICTED~~

WARNING

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U.S.C., 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO ANY UNAUTHORIZED PERSON IS PROHIBITED WITHOUT SPECIAL AUTHORITY FROM THE DIRECTOR OF CENTRAL INTELLIGENCE.

~~RESTRICTED~~

C I G

Documents Branch

PERIODICAL ABSTRACTS

Number 4

18 Jun 1947

Prepared by

Documents Branch
CENTRAL INTELLIGENCE GROUP
2430 E Street, N. W.
Washington, D. C.

~~RESTRICTED~~

~~RESTRICTED~~

This publication contains titles and abstracts of Japanese periodicals. Each periodical is abstracted as a whole and its issues summarized with a listing of volume and issue or report numbers and the dates of publication. Each periodical and each title and abstract has also been assigned an Index Number at the right in accordance with the Basic Intelligence Directive. Due to limitations of personnel and volume of material, it has been found necessary to require local agencies interested in any item covered by these abstracts to first send a representative to Sixth floor, 1340 L Street, N. W., in order to preview the article prior to formal request for further translation. Formal requests should be made through the Office of Collection and Dissemination, CIG, 2430 E Street, N. W., Washington, D. C.

Distribution List

State Dept (IAD)	4
Library of Congress	1
Dept of Commerce (Publications Board)	2
AID	1
CINCFE	10
OCCMLC	1
OQMG	1
OCSigO	3
OCE	2
OCO	1
OCT	2
AAF	21
AGF	10
ICAF	1
NWC	1
AFSC	1
ID	5
ONI	54
Manhattan Engr Dist	1
CIG	3
DB	60
Total	185

~~RESTRICTED~~

~~SECRET/TOP SECRET~~

C.I.G. - CIO - SECRET/REF ID: A6501100

Documents Branch

PERIODICAL ABSTRACTS

* * *

"RECENT JAPANESE PATENTS"

This publication contains the names, numbers, and in most cases, short abstracts, of recent Japanese patents, as reported on by the Japanese Patent Office in its publication "The Patent Gazette," No 2557, 2558, and 2559, for 5, 22 and 28 Feb 1946. (Doc. No. 361955)

The name given in each patent is that of the inventor. If the patent rights are held by someone other than the inventor, this name is given in parentheses following that of the inventor.

"Method of Preparing Sulfanilic Guanidine" 4408.0105
168761

YAMANOGUCHI Yoshitaka, SUGINO Kiichiro, AIDANI Yoshihiko, OTO Keijiro. (Nippon Carbide Industrial Co, Ltd).

"Improvement in Metallic Moulds" 4205.1000
168762

Designed to provide better castings by combining in molds for castings, with great difference in thickness in walls, a device for facilitating cooling in thick portions and for retarding it in thin portions. SAKAKIBARA Ikuzo.

"Improvement in Light Alloy Casting Methods" 4205.1000
168763

Facilitates rapid, accurate production of light metal castings. Complicated cores can be produced using small amounts of sand and simple apparatus which injects a spray of sand and a liquid cementing agent into the hollow mold. SAKAKIBARA Ikusabu.

"Device for Preventing Flickering in AC Meter Needles" 8330.1500
168767

Intended for instruments connected to 10-cycle, low-frequency square wave current, such as aeronautical navigation instruments, without impairing mechanical accuracy. KAKUNO Kazuo, NOZAKA Seijiro. (Nippon Precision Electrical Co, Ltd).

~~SECRET/TOP SECRET~~

~~RESTRICTED~~

"Moving Coil Device for Electric Meters" 8330.1500
 168768

Provides a moving coil for electric meters which reacts to an impulse immediately. Upon receiving a negative impulse the needle does not move, nor does it return to zero, but remains at the same position until it receives the next impulse in a positive direction. KAKUNO Kazuo, NOZAKA Seijiro. (Nippon Precision Electrical Co, Ltd).

"A Device for Automatically Preventing Vibration in Variable Pitch Aircraft Propellers" 2302.0608
 168769

Provides an effective long-lasting variable-pitch propeller by dampening vibration of propeller and engine shaft while in operation. FURUSAWA Takeshi.

"Method of Illumination" 4501.0500
 168771

Makes it possible for factories, hospitals, offices, railroad stations, etc., rapidly and simply to change over from usual illumination to emergency illumination by regulating voltage of the source of electricity. Uses radon tube, automatic relay switch and a leakage step-up transformer. FUJIKI Mitsubumi.

"Method of Preparing Acetone and Butyl Alcohol by Fermentation of Saccharine Subjects" 4408.0100
 168773

Improvement in the usual method of fermentation which requires less time and produces more refined products than the traditional system. KOBAYASHI Jiro. (Yamanouchi Pharmaceutical Co, Ltd).

"Method of Manufacturing Taurine" (2-aminoethane sulfonic acid) 4408.0100
 168774

Method of quickly obtaining the product with a high degree of purity. Reaction products of chlorosulfonic acid and ethylene oxide are neutralized with ammonia and heated. Taurine is obtained without any other separating processes. MIURA Saburo. (Yamanouchi Pharmaceutical Co, Ltd).

"Light Diffusion Electric Bulb" 4501.0500
 168775

Vacuum-type bulb which maintains its vacuum by the function of the discharge circuit. Franz Vogel (German).

"Improved Method of Manufacturing Drills and Cutting Tools" 4406.0300
 168777

Three-layer laminated block is built up with a thin sheet of high-speed steel plate sandwiched between two sheets of carbon steel. The drill is cut from this and a chuck welded in. ABE Kaza.

~~SECRET~~

"Multiphase H/F Radio Antenna" 8330.0200
168780 Multiphase device of the wave length in use coupled magnetically to a circular conducting aerial of several times the wave length used. TANAKA Sakio. (Kawanishi Mechanical Manufacturing Co., Ltd).

"Method of Bevelling Wood for Ship Ribs" 4413.0200
168782 Wood is treated with a hot liquid mixture of the fruit of the Japanese honey locust, (gleditsia Japonica), potassium bichromate and sodium ortho-phosphate. FUJIDA Takeji, MIWA Yoshitada.

"Device for Lens-Polishing Machine" 4419.0200
168784 Automatically controls lateral movement of its lens-polishing plates. OKUDA Heibei.

"Explosive Shell" 4409.0600
168786 Shell containing metallic or non-metallic fragments for use against aircraft or tanks. NAKAYAMA Doji.

"Transport Ship" (Small) 4604.0207
168787 Barge towed by the mother ship; constructed of wood with iron slats. TAKASHIMA Sachio; also owned by HARA Tatsuji, TANABE Shinko.

"Method of Preparing Pure, Double Salts of Thorium Fluoride and Potassium Fluoride" 4408.0105
168788 Easy and economical preparation from hydrofluoric acid containing hydrofluosilicic acid or from hydrofluosilicic acid itself. WATANABE Moto, MURAI Adsumasake, HIRA Kitaro. (Mitsubishi Steel Manufacturing Co., Ltd.).

"Method of Manufacturing Rubber Paint" 4413.0700
168789 Quick-drying, strongly adhesive, non-conductive and chemically resistant. MATSUSHITA Yumimi. (NAKAGAWA Hiroshi).

"Device for Introducing Objects into a High Vacuum" 4418.0300
168797 A method of handling photographic plates, etc., which must be inserted into the evacuated interiors of such devices as the electron microscope. SUGADA Eiji.

"Provision Method of Assembling a Magnetic-field Type Electron Lens" 4418.0300
168798 SUGADA Eiji.

~~PROBABLY REDACTED~~

"Machine For Manufacturing Metal Lock Nuts"	4406.0300
168799	
168800	
168801	
Metal strips are automatically cut and twisted by this machine to form various sizes of lock-nuts.	
IIHAMA Masakatsu.	
"Method of Preparing a Quick-drying, Light-colored Adhesive"	4413.0901
168802	
The dark-brown liquid extract from sulphate pulp is bleached and treated. IMAIZUMI Masakichi.	
"Method of Natural-Color Photography"	0504.0800
168803	
NAGAGUCHI Miakichi.	
"Method of Producing Butyl Alcohol by Fermentation"	4408.0100
168804	
KATO Benzoro.	
"Improvement on a Gear-shift Mechanism on Cars which Have the Intermittent Control Attached to Steering Column"	4403.0600
168805	
KOSUGI Jiro.	
"Mechanism for Electroplating Piston Rings"	0504.0600
168806	
OHINO Toyoaki.	
"Aileron Control System for Aircraft"	2302.0611
168808	
Hans Gropperol, Hans Lieber, (Junkers Flug u Motoren Werke A/G).	
"A Method of Manufacturing Sintered Iron Bearings"	4205.0225
168811	
The sintered metal body is joined to a soft steel covering. MAITO Isaac (TOKUYAMA Sheet Iron Co, Ltd).	
"Metal for Bearings"	4205.0225
168812	
A porous metal, obtained by fusing powdered-lead oxide and iron oxide, is then treated with antimony. MAITO Isaac. (TOKUYAMA Sheet Iron Co, Ltd)	
"Non-conductive Welding Rods for Cast Iron"	4205.0255
168813	
WATANABE Kanji. (WATANABE Hirome).	
"Device for Operating Machine-Tool Carriages"	4406.0300
168814	
A device to control the cutting-tool carriage automatically. NISHIZAWA Kojiro.	

"A Device for Thread Calibration" 4406.0300
168815

A device to measure effective radius, pitch,
angle of pitch, etc., for right and left-hand
threads. TOYOSAWA Noburo.

"Substitute for Metallic Plates" 4412.0500
168816

A laminated wooden veneer. YAMAZAKI Chiyoze.

"Method for Extracting Potash and Alumina from Alum Stone" 4206.0100
168819

TANAKA Tadayoshi, YAMAGUCHI Ikuo

"Method of Manufacturing Lubricating Oil from Rubber" 4203.0506
168821

An extremely stable lubricating oil, with low
iodine value, is produced by treating rubber
with liquid hydrocarbons. NAKAMURA Saburo,
TOMIDA Mori.

"A Selenium Recovery Method" 4205.0700
168822

Recovery of selenium from by-products of
sulphuric acid manufacture. OCHI Kamenjiro,
OHASHI Tomichi, KOHATO Katsuko, MATSUDA Yoshiji.
(NAKANISHI Tokushige).

"Method of Manufacturing Sodium Fluorite and Cryolite" 4305.0302
168823

Low-silicon fluorite is treated with diluted
sulphuric acid. IZUMIGAWA Kozo, IWATANI Jiro,
KURAMOTO Sajiro. (Sumitomo Chemical Industry
Co, Ltd.).

"Method of Manufacturing Dimethyl Sulphate" 4408.0100
168824

Dimethyl sulphate is obtained from the ex-
haust-gases of a metanol alcohol distilling
tower. FUJIMURA Kenji, AKIYAMA Kimboi.
(Sumitomo Chemical Industry Co, Ltd.).

"A Flotation Mining Process Using By-products of Butyl Acetone Fermentation as Bubbling Agents" 4201.0300
168825

FUJIMURA Kenji, NAKANUMA Hiraji. (Sumitomo
Mining Co, Ltd.).

"Method of Blowing Glass Vessels" 4422.0000
168826

Radio tubes, light bulbs, and other thin-walled
glass vessels machine blown without ridges.
TOKUNAGA Zenjiro, (TOKUNAGA Glass Co, Ltd.).

~~REFUGED~~

"Device for Detonating Bombs at a Pre-Determined Altitude" 8360.0500

168829

Radio waves sent out by bomb to ground are reflected back to the bomb to a detonating apparatus when the bomb is at the proper altitude. UEDA Takeo.

"High-Strength Temporary Bolt" 4406.0300

168830

A bolt similar to the American "S-A-E" bolt.
HARA Kanematsu.

"Method of Welding High-Speed Steel for Cutting Edges" 4205.0255

168833

MATSUNAWA Nobuta.

"Device for Continous Vaporization of Powdered Fuel" 4203.0422

168834

KITAZAWA Shiro, YOSHIMURA Tatsuo.

"Method of Manufacturing Vinyl Chloride" 4408.0105

168836

A uniformly low-temperature process. SUGINO Sakaji.
(Imperial Rayon Co, Ltd).

"A Filter with an Automatic Cleaning Device" 0504.1202

168838

KATO Fukumatsu.

"Selector for Pulverized Minerals" 4206.0400

168840

Device for grading pulverized abrasive materials such as carbon and arundum. SHIMMAYAMA Yoshio.

"Methanol Synthetic Tube" 4408.0100

168841

Device for economically producing methanol by maintaining a uniform temperature in the reaction chamber. MURAYAMA Takashi. (Nippon Nitrogenous Fertilizer Co, Ltd).

"Method of Preparing Magnesium Sulphate" 4205.0600

168842

Produced from crystals containing manganese dioxide or from manganese dioxide itself. IUCHI Yutaka, (Nippon Nitrogenous Fertilizer Co, Ltd).

"Method of Ore Selection" 4205.1002

168843

High-speed process using centrifugal force.
NAKAMURA Koichi.

"Method of Sieving Scaly Graphite" 8600.0444

168846

KIMURA Rikiichi.

"Reducing Process for the Surface of Copper Oxide Plates in Rectifiers" 8330.2400

168847

INUDA Senri.

~~REFUGED~~

[REDACTED]

"Method of Manufacturing Non-Combustible Cement" 4413.0000
168848
Compounding of slag cement and magnesia cement.
INUDA Sorri.

"Sparkless Electric Commutator" 4406.0200
168849
SATO Ichiro.

"Method of Preventing Effect on the Overload Protective System by the Activating Current in a Squirrel-cage-Type Induction Motor Requiring High Voltage for Starting" 4406.0400
168850
WAKAYAMA Shigee. (Navy Ministry).

"Filter for Oil and Other Liquids" 4203.0500
168851
KASHIMA Hidoo, (War Ministry).

"Manufacturing Method for Ozone-proof Paint" 4413.0700
168853
UEJIMA Hekaji, (Navy Ministry).

"Method of Manufacturing Brake Blocks from Silicon" 4205.0400
168857
Used for high-speed revolving wheels and are superior to the previous cast-iron brake blocks in hardness, braking power, abrasion and friction resistance. OKADA Kenji, (Osaka Porcelain Co, Ltd).

"Fabrication Process for Coal Tar" 4412.0000
168858
Used as protective coating against insects, rust proof, anti-corrosive and durable.
SEKINE Taijirō.

"Method of Manufacturing Storage-Battery Case" 8330.0300
168859
This case is convenient, indestructible, acid-proof, non-corroding. Graphite and synthetic resins are used in its manufacture. KIKKUJI Jiro.

"Cylindrical Rotary-field Magnet" 8330.0900
161305
A field-magnet for turbo-generators, etc., which is completely free from vibration.
KOMATSUSAKI Kenzo. (MEIDENSHI Co, Ltd).

"A Combination AA Defense Light, Food Cooker and Heater" 2107.1300
168861
An oil, alcohol or paraffin burner with special cover permitting use during blackouts.
NISHIYAMA Yoneichi.

~~SECRET~~

"A Basket-type Gasket" 4406.0400
168862 A circular spring-type gasket for air pumps, providing an extremely tight seal. NIITA Keiichi. (MATSUMOTO Kiichi).

"A Basket-type Gasket" 4406.0400
168863 A variation on the above patent. NIITA Keiichi. (MATSUMOTO Kiichi).

"A Damp-Forging Method" 0504.1302
168864 Sulphate fluxes are used in forging, with the addition of water, to permit forging corroded metal surfaces. ITO Sadami. (KATO Yegoro).

"An Improved Method of Recovering Ammonia Salts" 4408.0100
168865 Separation of ammonia and sodium salts from the waste liquid of the ammonia process. An improvement of Patent No. 162700. KATO Yegoro.

"Method of Manufacturing Butyrcne" 4417.0100
168866 Butyrcne (dipropyl ketone) is produced by heating butyric acid with a catalyst of manganese dioxide. KATO Yegoro.

"An Improved Method of Fusing Metal to Glass or Ceramics" 4205.1000
168867 Metallic salts are added to platinum, silver, gold, and other metals to permit easy fusing. MATSUO Kikushi. (Nippon Glass Co., Inc).

"An Improvement in Vulcanizing Rubber Goods" 4416.0100
168868 Objects are covered with paper, cloth or some other substance before vulcanizing, providing greater mechanical strength in the finished product. FUTAMIYA Shikanosuke. (KOGA Electrical Industry Co., Ltd).

"A Method of Causing Inorganic Non-metallic Coatings to Adhere" 4203.0600
168870 Coatings for gasoline containers, etc., are made to adhere permanently by spraying on at high pressure. SAIDA Takesaburo.

"A Diamond Dresser" 4206.0400
168871 A diamond dresser that can be manufactured without special heating equipment. IWAFUCHI Ryohei.

~~RESTRICTED~~

"A Method of Manufacturing Gamma-phenol-piperidine- 4408.0105
gamma-carbon Derivitives by Replacing Nitrogen
with Alphyl"
168874

Kim, Kyong-ho; Chun, Hi-il; Lew, Hong; Lew,
Yong and Chun, Song-il (Koreans)

"A Method of Manufacturing Carbamyl Chlorine - 4408.0105
Haloid"
168875

Utilizes a reaction between carbaminic acid and
chlorine haloid. NASHINI Kiichi. (Tanabe
Manufacturing Pharmaceutical Co., Ltd).

"A Method of Manufacturing Copper-sheathed Tin 8330.0600
Cables"
168876

A roller is used to join the sheath and core
in producing a lead wire suitable for high-
frequency work. OTANI Kenji. (Fujikura Electric
Wire Co., Ltd).

"A Method of Attaching Insulating Discs to the Core 8330.0600
of Coaxial Cable"
168877

A revolving jig to hold the cable during work
and facilitate manufacture. FUKUDA Shunichi.
(Fujikura Electric Wire Co., Ltd).

"Breaching Tool" 4406.0300
168878

Cutting edges are press fitted into the
central spindle of the tool. TANAKA Isamu.

"A Reaction Apparatus Using a Permanent Catalyst" 4408.0105
168879

Separates the reaction chamber with fixed partitions,
increasing the efficiency of the catalyst.
SAKAMOTO Isamu.

"A Method of Melting Polysulphide Synthetic
Rubber to Permit Its Use as Paint and Adhesive
Agent" 4413.0700
168880

Liquid carbon bisulphide is used to dissolve
the synthetic rubber. IWADA Tomiochi.

"A Membrane for Use in Hydrolysis of Water" 4413.0700
168881

The membrane is made of polyvinyl alcohol.
HINONISHI Yoshitoru.

"A Method of Lowering the Viscosity of Condensed
Oil" 4203.0508
168883

Glacial acetic acid is added to the oil. TANAKA
Kinjirō.

~~RESTRICTED~~

~~RESTRICTED~~

"A Method of Manufacturing Multi-ply Paper Vessels" .. 4421.0000
 168884

YABE Yuichiro.

"Zinc-plating Method" .. 4205.1000
 168886

A method utilizing an electrolytic solution of soluble fatty acids and zinc. NODA Zembei and HASHIMA Tatsuo. (Tokyo Illumination Equipment Co, Ltd).

"A Method of Manufacturing Artificial Leather" .. 4414.0000
 168887

Animal or vegetable fibers are used as a base, plus albumen, aluminum sulphate, acetic acid and sawdust. UESHIMA Keizi, UNO Shintaro, MURAKAMI Yoshio, ODAKURO Jisei, IIMURA Kotoku. (Nippon Tanning Co, Ltd).

"A Method of Manufacturing Pantothenic Acid and Its Salts" .. 4408.0105
 168889

N-(alpha, gamma-dihydroxy-beta, beta-dimethylbutyryl)-beta-alanine, of value in biological studies, is produced by treating diethyl derivatives with an oxidizing agent. Thaddeus Leichenstein (Swiss), (F. Hoffman U. R. Rauch A/G).

"A Method of Manufacturing Lubricating Oil from Artificial Petroleum" .. 4203.0500
 168890

A lubricating oil which, because of its increased stability, can be used under a wide variety of circumstances, is produced by chemically removing the sludge. KAWASAKI Gunichiro, (Nippon Nitrogenous Fertilizer Co, Ltd).

"A Method of Isolating Thorium from Sulphate Solutions of Rare Phosphorous Earths Containing Thorium" .. 8600.0445
 168892

Sulphate solutions of thorium and the rare earths are diluted with from 5 to 16 parts water. Free acid in the solution is reduced to between 0.15 and 0.5 normal, and the thorium precipitated with insoluble phosphates. KOYAMA Shigehito. (Hoguchi Research Foundation).

"A Method of Changing Alpha or Beta-unsaturated Aldehyde and Ketone into Equivalent Unsaturated Alcohol" .. 4408.0100
 168893

The process utilizes a reaction with hydrogen gas under pressure, with a cadmium catalyst. Heinrich Brendlein (German).

"A Method of Increasing the Resistance to Friction 4408.0100
of the Colors Used in Insoluble Azo Dyestuffs"
168894

A heat treatment, using soap or soap and sodium carbonate, which makes the colors light-fast and also results in a high resistance to friction.
Hans Erner. (I. G. Farbenindustrie A/G).

"A Tool for High-Temperature Drilling in Steel 4406.0300
Tubing"
168898

A tool of cast steel of which only the end is tempered. KINUGAWA Takeyoshi. (Junyu Metal Mfg Co, Ltd.).

"A Rotary Saw for Cutting Round Objects" 4406.0300
168901

Four curved saw blades are held in a circular frame which is opened, clamped onto the object to be cut and then rotated. TANI Takehisa.

"A Method of Illumination for Reading Signs and 2107.1300
Notices at Night"
168902

A small flashlight, with dry cells, to be worn on the visor of a military cap, especially adapted for night combat operations. TAKENAKA Masao. (TOGAWA Ayaji).

"A High Frequency Cable" 8330.0600
168903

A simplification of the method of manufacture, which also economizes materials. IINUMA Moto. (International Electric Communication Co, Ltd.).

"An Absorption-type Cymometer" 8330.1500
168904

Accuracy of this variety of wave meter is increased and special resonance features obtained by using a thermocouple-type ammeter whose resistance has a low temperature coefficient.
NISHIGAWA Noriichi.

"An Absorption-type Cymometer" 8330.1500
168905

Resultant resistance of the resonance circuit is lowered to or near zero, facilitating wave-measurement and increasing the degree of accuracy of the instrument. NISHIGAWA Noriichi.

"A Floatation Method" 4205.0225
168908

This method utilizes (a) a mixture of low ester alcohol from fatty acids, and high grade alcohol and (b) a mixture of the above, plus squalene, as a separating agent. It has the advantage of being non-poisonous. CHIKUSA Tokujiro.

~~RESTRICTED~~

"A Flashlight-type Work Light" 0504.0600

168909

YAMAMOTO Kiyo and YAMADA Sane.
(Matsushita Electrical Mfg Co, Ltd.).

"A Method of Electroplating Aluminum and Its 4205.0300

Alloys"

168910

YAMASAKI Asagoro.

[End of "Recent Japanese Patents" Abstracts]

[End of DOCUMENTS BRANCH PERIODICAL ABSTRACTS No 4]

~~RESTRICTED~~

~~RESTRICTED~~